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CV / Alex Coulcher / Creative Software Developer / London

+ Me

I am a full stack software developer with over 10 years experience working in front & back end, devops, creative and research focused roles. I have worked both as a Senior Developer, and in leadership roles, mentoring team members and overseeing projects.

Skilled in a wide range of technologies, services and tool chains, I am always eager to keep up to date with the latest tech developments. I have a keen interest and tenacity, not only in utilising the tools appropriately, but also with how they work. I understand the importance of following the appropriate methodologies and design patterns within an existing project, and choosing these appropriately in new projects.

+ Skills

+++++ Node.JS [Express, HAPI, SailsJS +more], MongoDB, Redis, AWS [EC2, Alexa, Lambda, Serverless, +more], Data Viz JS [d3, Flourish] Linux [Server, Desktop, SoC/ARM/RaspberryPI], Fly Fishing/Tying [Stillwater, River], Brewing [Ale, Lager, Wine], Charcuterie [Salumi, Salami], Poultry [Eggs]

++++ Java [Spring, Processing], C++ [OpenFrameworks], Neo4j [Cypher], Frontend JS [ES6, React, Redux, Typescript +more], PHP [Laravel, Wordpress +more], BDD/TDD [Junit, Mocha/Chai, Jest, Supertest, Mockito], MySQL, DevOps [Bash, JenkinsCI, Vagrant, Ansible], Arduino, Servers [Apache, Nginx, Varnish], Networking [WireShark, MQTT], Monitoring [PM2], Flash [AS3, Flux], 3D Printing [Ultimaker2, Cura, SketchUp]

+++ OpenCV, SecOps [SQLMap, mitmproxy, burpsuite, +more] Swagger, Canvas/SVG [twoJS], HTML5, CSS [CSS3, SCSS, Less], Photoshop, Illustrator, Hammer/Screwdriver, Pen/Pencil

+ Experience

@ Sapient Senior NodeJS & Java Spring Developer

Contract
Jan/18

Building out a complex micro service architecture in a highly agile environment to support the Open Banking initiative for Lloyds Bank.

NodeJS [Loopback], Java [Spring, Oracle], Agile, IBM Bluemix, Kubernetes, React, Redux, Swagger, CI/Jenkins, DevOps, TDD/BDD
<https://www.openbanking.org.uk/>

@ Hushkeys Full Stack Developer

Contract
4 Months

Taking MVP, to RC, building a social network focused on privacy. Backend, to frontend. Graph databases to gulp files.

NodeJS [Express], Neo4j, AWS, React, Redux, TDD/BDD, DevOps
<https://www.hushkeys.com/>

@ Wunderman D3 Developer

Contract
4 Weeks

Worked heavily with UX, Design and Data teams to produce visuals that were not only of beautiful form, but great function as well.

D3, Flourish

@ Haygarth Senior Creative Technologist / Tech Lead

Fulltime
Apr/15 - Sep/17

From Creative to DevOps, from prototyping to full installation builds. At Haygarth I was fully involved right across the technology stack for some amazing projects including two of the companies greatest (and award winning) experiential pieces, as well modernising tools and practices, leading and producing innovative websites for great clients. During my time I migrated all of the companies existing cloud infrastructure to AWS, updating development and devops practices to include NodeJS and React, moving away from an existing legacy PHP skillset where it was appropriate.

Haygarth / Tracking [Lambda, Frontend]
NodeJS, AWS [Lambda, Serverless], FrontendJS, DynamoDB
R&D

DDB / OneWord [API, Frontend]
NodeJS [Hapi], MongoDB, ReactJS [Redux, Babel, Webpack]
AWS, Jenkins, Ansible, Vagrant, Nginx, Centos, SELinux, TDD/BDD
Tech Lead, Swagger (docs), Scoping/Costing, SSO Integration,
<https://oneword.ddbnorthamerica.com/>

Gillette / RZRMKR [Admin, API, Frontend]
NodeJS [Hapi, Express], MongoDB, ReactJS [Redux, Babel, Webpack]
AWS, Jenkins, Ansible, Vagrant, PM2, Nginx, Ubuntu, TDD/BDD
Tech Lead, Swagger (docs), Scoping/Costing, 3D Printing
<http://rzmkrcustom.co.uk/>

Heineken / Star Retailer [Website]
Jenkins, Windows IIS, MSSQL, Symphony, Ansible, Vagrant, TDD/BDD
Tech Lead, Scoping/Costing, Client Facing
<https://www.starretailer.co.uk/>

Heineken / Amstel Ride100 [Website]
PHP [Laravel], MySQL, SCSS, Gulp, Various API Integration,
Jenkins, Ansible, Vagrant
Tech Lead, Scoping/Costing, Client Facing
<https://www.amstelbier.co.uk/ridetogether>

Clarins / Hydration Station [Installation]

C++ [OpenFrameworks], Arduino, AfterEffects

Creative Tech Lead, Scoping/Costing, Client Facing, Hardware purchase, Hardware integration, Prototyping, Site IT, Installation

Clarins / Urban Oasis [Projection App, Tablet App, Printer App, Manager Service, Website]

NodeJS, C++ [OpenFrameworks], FrontendJS [BackboneJS, SocketIO], PHP [Laravel], MySQL, Redis, Gulp, PM2, RaspberryPI, Linux, Networking, DSLR Camera IO, Printer/CUPS IO

Creative Tech Lead, Scoping/Costing, Client Facing, Hardware purchase, Hardware integration, Prototyping, Site IT, Installation

<http://clarins-urban-oasis.creativecasestudy.net/>

SonyZ5 / Xperia Z5 [Game, Tablet App, Server, Website]

NodeJS, Unity (HTTP integration), FrontendJS [BackboneJS, SocketIO], Python, PHP [Laravel], MySQL, Redis, Gulp, RaspberryPI, POS Printer IO, Linux, Networking

Creative Tech Lead, Scoping/Costing, Hardware purchase, Hardware integration, Prototyping, Site IT, Installation

<https://vimeo.com/147566446>

@ Ogilvy

Creative Technologist

Fulltime

Jul/14 - Apr/15

At Ogilvy my main responsibility was maintaining YNTHT, an application and website platform that used gps to select music to play. With the system wobbling and creaking, I managed to refactor the system to not only increase stability and scalability, but reduce servers costs by rescaling parts of the system where appropriate. Most work on the Xamarin app was bug fixing. At Ogilvy I was also responsible for costing projects, writing technical documentation, as well as building various rapid prototypes to test ideas, win pitches and impress clients.

Ogilvy / Social Listening Post [Installation]

NodeJS, FrontendJS [BackboneJS, SocketIO, d3], TwitterAPI, MySQL, Redis, Gulp, RaspberryPI, POS Printer IO, Linux, Networking

R&D, Speech recognition Integration

Phillips / YNTHN [Mobile App, Website, Server]

NodeJS, MongoDB, Neo4J, memcache, HTML/CSS

Xamarin, IOS, New Relic

Refactoring, Reduced hosting costs

@ Digit

Creative Technologist

Fulltime

Sep/11 - Jul/14

Initial brought in to further Digit's R&D team, my role grew exponentially to support other developers including seniors, revitalising how the team works with tooling such as Git, Jenkins, Redmine and working as a key member in the creative team. Projects have included PHP/LAMP & NodeJS, audio transcription, natural language processing, graph databases, motion detection, circuit building and mutli-client TCP networking to name but a few. My work at Digit has been featured

on various tech blogs on the web, including Creative Applications and Fast Co Design.

Xchanging / Generative [Installation]

C++ [OpenFrameworks], JS [Google Sheets Scripting], AfterEffects
Creative Tech Lead, Scoping/Costing, Hardware integration,
Prototyping, Installation

<https://vimeo.com/116539364>

Digit / m0ppy Jukebox [Server, Web App]

NodeJS [Express, SocketIO], FrontendJS [BackboneJS, SocketIO],
Jade, SCSS, Grunt, Linux, mopidy/mpd, Bash

Creative, R&D, Hardware integration, Prototyping, Installation

Channel 4 / D-Day7 [Website]

PHP [Internal Framework], MySQL, Solr

<http://dday7.channel4.com/>

@ +More

Ebee [Creative Technologist]

Jul/11 - Sep/11

Archibald Ingall Stretton [Creative Technologist]

May/10 - Jul/11

Halpern Cowan [Interactive Designer]

Jun/08 - May/10

@ Education

University of Creative Arts [Graphic Design New Media]

Sep/05 - May/08

Grade 2.1